Personal Protective Equipment

- Level A
  - Positive Pressure SCBA or SAR with Escape
  - Vapor Impermeable Clothing
    - Suite
    - Gloves
    - Boots
- Used mostly for emergency response

Personal Protective Equipment

- Level B
  - Positive Pressure SCBA or SAR with Escape
  - Chemical Contact Resistant Clothing
    - Suite
    - Gloves
    - Boots
- Used for highly toxic or unknown atmospheres that are not corrosive.

Personal Protective Equipment

- Level C
  - APR or PAPR with Appropriate Cartridges
  - Chemical Contact Resistant Clothing
    - Suite
    - Gloves
    - Boots
- Commonly used on hazardous waste sites where exposures may be over action levels and IDLH issues are defined.

Personal Protective Equipment

- Modified Level D
  - No Respirators
  - Chemical contact resistant clothing
    - Suite
    - Gloves
    - Boots
- Commonly used where there are no atmospheric hazards but a need to keep contaminants off skin

Personal Protective Equipment

- Level D
  - No Respirators
  - Other clothing appropriate for the physical demands of the job
- Commonly used on hazardous waste sites for tasks that will not cause exposure to contaminants.

Personal Protective Equipment

- Respirators – Hazardous Waste Site Use
  - Exposures potentially exceed SSHP defined Action Levels
  - Work may be performed in highly toxic or IDLH atmosphere

Personal Protective Equipment

- Respirator – Selection for hazardous waste site use
  - Highly Toxic or IDLH Conditions
    - Positive Pressure Atmosphere Supplying Respirator
  - Most other Conditions
    - Respirator with adequate protection factor

Personal Protective Equipment

- Respirators – Protection Factors
  - Half Face APR – 10x
  - Full Face APR – 50x
  - Full Face PAPR – 1000x
  - Full Face PP SAR – 1000x
  - Full Face PP SCBA – 10000x

Personal Protective Equipment

- Respirators – Selection Calculation

Respirator PF > EEL/AL

EEL = Estimated Exposure Level

AL = Action Level

Personal Protective Equipment

- Respirators – Proper Use
  - Assure proper fit
  - Use according to instructions
  - Maintain in proper condition
  - Store properly

Personal Protective Equipment

- Respirators – Field Relevant Reg. Changes
  - All tight fitting respirators have to be fit tested in negative pressure mode, even SCBAs
  - N,P, or R 95 cartridges are adequate for most hazardous waste site dust
  - N,P or R 100 = HEPA, Required when regs. Call for HEPA
  - Chemical Cartridges equipped with ESLI or change-out schedule documented in SSHP.

Personal Protective Equipment

- Clothing – Waste Site Consideration
  - Resist Chemical Contaminants
  - Stand up to decontamination methods
  - Stand up to physical rigors of the work
  - Moisture permeability beneficial for reducing heat stress
  - Consider cost